

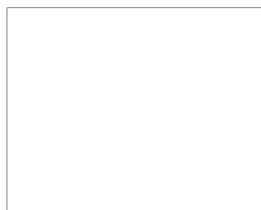
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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**COMMUNICATIONS SYSTEMS
HUNAN PROVINCE, CHINA**



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DECEMBER 1972

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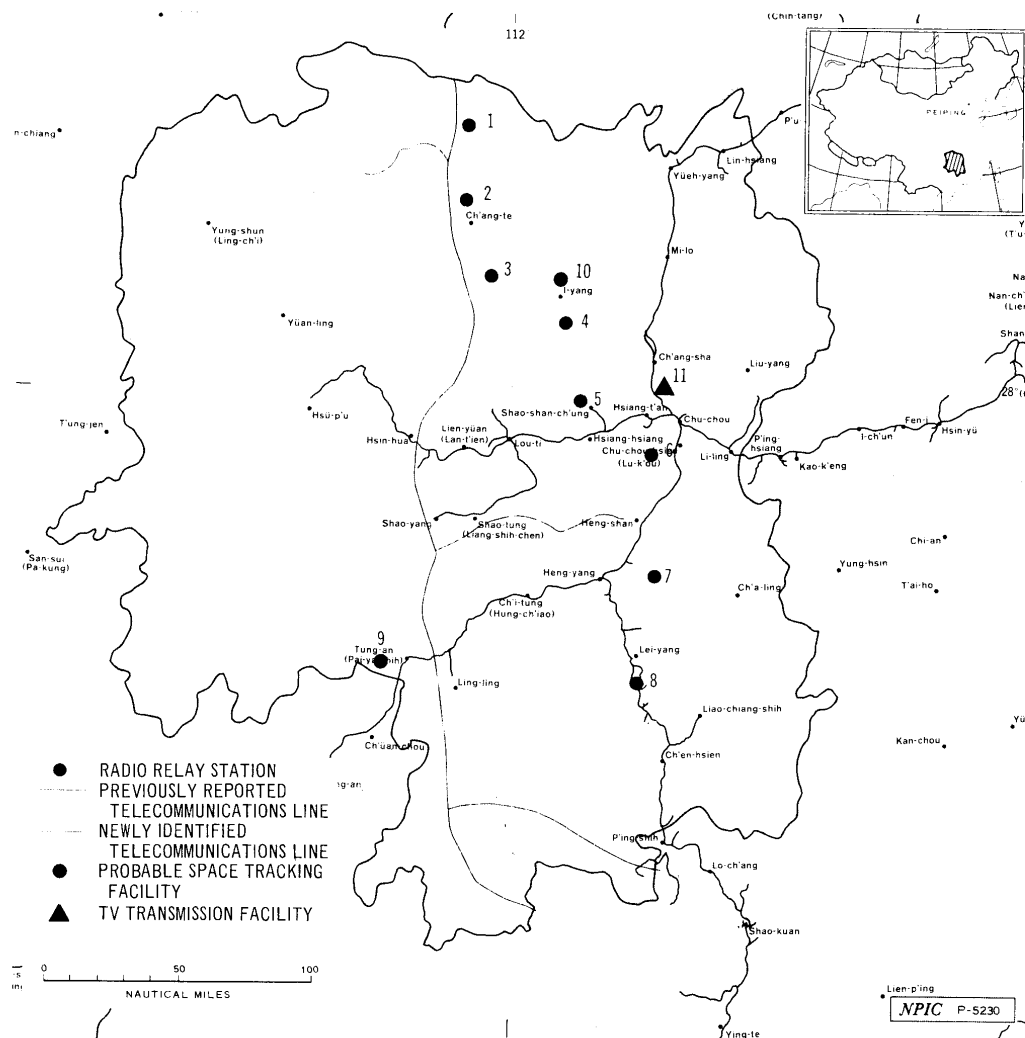


FIGURE 1. COMMUNICATIONS SYSTEMS, HUNAN PROVINCE, CHINA

Table 1. Facilities Associated With New Communications System, Hunan Province (Items numbers keyed to Figure 1)

Item	Installation	Coordinates
1	Li-hsien Radio Relay Station Bunkered	29-35-50N 111-40-15E
2	Chang-te Radio Relay Station Bunkered	29-08-51N 111-42-05E
3	San-tang-chieh Radio Relay Station Bunkered	28-42-30N 111-55-53E
4	I-yang Radio Relay Station Bunkered	28-29-35N 112-21-00E
5	Yin-tien Radio Relay Station Bunkered	27-54-25N 112-22-50E
6	Cha-yuan-pu Radio Relay Station Bunkered	27-38-38N 112-58-20E
7	Heng-yang Radio Relay Station Bunkered	26-55-08N 112-53-28E
8	Lei-yang Radio Relay Station Bunkered	26-18-50N 112-51-38E
9	Tzu-chi-shih Probable Space Tracking Facility	26-21-26N 111-10-07E
10	I-yang Probable Space Tracking Facility	28-42-30N 112-16-40E
11	Chang-sha TV Transmission Facility	28-02-10N 113-03-40E

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Communications Systems
Hunan Province
China

ABSTRACT

1. This report describes two communications systems currently being developed in Hunan Province. The report includes text, a location map, four photographs, and references and is based on photography between July 1971 and September 1972.

INTRODUCTION

2. Two major communications systems are being developed in Hunan Province (Figure 1). One system, an underground telecommunications line, is more than 520 nautical miles (nm) long. The other is a series of eight bunkered, radio relay communications facilities. Possibly related facilities include a TV transmission tower near Chang-sha and two probable space tracking facilities.

BASIC DESCRIPTION**Underground Telecommunications Line**

3. The 520 nm of underground telecommunications line was identified on photography [redacted]. The line runs generally north and south, connecting the Chung-ching/Shang-hai telecommunications line in the north with Canton. Two branch lines, totaling approximately 115 nm, have been identified since March 1972. One branch extends from the trunk line at 29-33N 111-32E west for approximately 32 nm to the vicinity of Tzu-li at 29-26N 111-07E. The second branch extends from the main trunk line at 27-08N 111-23E near Shao-yang east for approximately 83 nm to the vicinity of Nan-yueh at 27-15N 112-44E. The main trunk line crosses wide streams or rivers at at least six locations. At these points the line splits into either two or four segments, crosses the river, and then rejoins on the opposite shore (Figure 2).

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Radio Relay Communications Facilities

4. A series of bunkered, radio relay communications facilities have also been identified [redacted]. Eight sites are generally parallel to the main portion of the underground telecommunications line. Other sites in Kwangtung Province indicate that this system will extend to Canton.

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5. A typical site is at Li-hsien (Figure 3). This facility consists of a bunkered operations building and several support buildings on a hilltop. The bunkers at all sites are open on two ends. The open end of the bunker at one site is in line with the open end of the bunker at the next site in the network. These sites are generally from 25 to 35 nm apart and are usually on the highest point of land in the immediate area.

Related Installations

6. The Chang-sha TV Transmission Facility [redacted] was identified just south of Chang-sha [redacted]. This facility consists of a [redacted] lattice TV transmitting tower on a hilltop 10.5 nm south-southeast of Chang-sha at 28-02-10N 113-03-40E.

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7. Two facilities in Hunan Province have been tentatively identified as probable space tracking facilities. Tzu-chi-shih Probable Space Tracking Facility [redacted] at 26-21-26N 111-10-07E, was identified in southern Hunan [redacted]. This facility contains two pedestal-mounted, solid-dish parabolic antennas. One antenna is 16.0 meters (51 feet) in diameter [redacted]. Each is next to a control building. Cable trenching connects both antennas. I-yang Probable Space Tracking Facility [redacted] at 28-42-30N 112-16-40E, was identified in north-central Hunan [redacted]. This facility contains three pedestal-mounted, solid-dish parabolic antennas. [redacted]

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8. Lack of good coverage between October 1969 and February 1972 precludes an accurate negation date for most of the system. It can be established, however, that it has been constructed since October 1969.

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REFERENCES

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DOCUMENTS

1. NPIC. [REDACTED], PIN-029/72, Continuing Construction Underground Telecommunications Line, South China, Mar 72 (TOP SECRET RUFF)
2. NPIC. [REDACTED], RCA-15/8011/72, Tzu-chi-shih Probable Space Tracking Facility, Mar 72 (TOP SECRET RUFF)

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REQUIREMENT

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